## Quadratics/Polynomial Crossword Puzzle



## Across

1. rational numbers that look alike but have different signs
2. a number that multiplies times itself 5. the numerical factor of a monomial
3. an equation containing at least one squared term
4. asking 4 questions to break down an equation to its smallest form
5. crosses the $x$ axis one time
6. the line crosses the $x$ axis here
7. $A x+B y=C$
8. $y=a(x-h)^{2}+k$
9. $b^{2}-4 a c$
10. highest y-coordinate on a graph
11. the line crosses the $y$ axis here
12. a way to distribute two binomials
13. another name for the solutions of a quadratic equation
14. a line that goes in an even amount of directions
15. an equation with 3 terms
16. a line which splits down the middle of a shape and has equal parts on both sides
17. the sum of the exponents of the variable in a monomial
18. crosses the $x$ axis twice

## Down

2. data arranged in rows and columns
3. the lowest $y$-coordinate on a graph
4. a symmetrical curve beginning at a fixed point
5. used to make a quadratic equation into a perfect trinomial
6. a rule that helps a person find the roots of a polynomial by looking at the signs
7. a monomial that does not contain variables
8. never crosses the $x$ axis 15. a line that goes in an odd number of directions
9. the greatest $y$-coordinate of nearby points on a graph
10. a way to divide a polynomial by a binomial
11. a "division symbol" with a tail
12. $x$ equals negative $b$ plus or minus the square root of $b^{2}$ minus $4 a c$ all over $2 a$
13. numbers in the form ( $\mathrm{a}=\mathrm{bi}$ ) where a and $b$ are real; $i$ is imaginary
14. the axis of symmetry meets the parabola here
15. solutions of a quadratic equation
